



## Research Institute of Geodesy and Cartography

# “Ukraine experience in EuroGeographics”

*Andrii Cherin,  
Research Institute of Geodesy and Cartography*

*Amsterdam 14 September 2016*

# *Ukraine in Eurogeographics*

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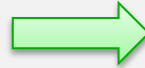
**StateGeoCadastre – Ukraine's member of EuroGeographics since 2007**

EGM  
provide data

EBM  
provide data

ERM  
preparing  
data

Minister of Regional  
Development, Construction  
and Housing of Ukraine

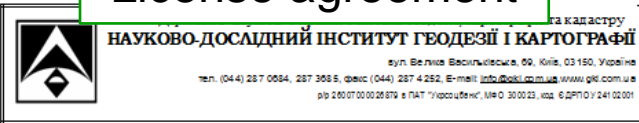


Ministry of Agrarian  
Policy and Food of  
Ukraine

# Data producer

## Research Institute of Geodesy and Cartography - data producer for EuroGeographics

### License agreement



«02» вересня 2016 р. № 813

На лист №

В. о. голови Державної служби України з питань  
геодезії, картографії та кадастру О. М. Цвях

вул. В. Васильківська, 69, м. Київ, 03150

Щодо технічної наради Eurogeographics

#### Службова записка

Науково-дослідний інститут геодезії і картографії за дорученням Державної служби геодезії і картографії від 21.12.2011 р. за №1620/29/1-11 підписав Ліцензійну Угоду (License Agreement) та бере участь в проєктах Eurogeographics – Європейської асоціації національних картографо-геодезичних, кадастрових та земельно-реєстраційних служб:

EuroGlobalMap набір топографічних даних роздільною здатністю 1:1 000 000 (1:1 million scale topographic dataset covering 45 countries and territories in the European region).

EuroBoundaryMap набір даних адміністративно-територіального устрою роздільною здатністю 1:100 000 (1:100 000 scale administrative and statistical regions dataset covering).

EuroRegionalMap набір топографічних даних роздільною здатністю в масштабі 1:250 000 (1:250 000 scale topographic dataset covering 33 European states).  
<http://www.eurogeographics.org/products-and-services/euroglobalmap>  
<http://www.eurogeographics.org/products-and-services/euroboundarymap>  
<http://www.eurogeographics.org/products-and-services/euroregionalmap>

14-15 вересня 2016 року в Амстердамі (Office of Kadaster, Naritaweg 3, 1043 BP Amsterdam, The Netherlands), відбудеться технічна нарада виробників даних для проєктів Eurogeographics: EuroRegionalMap, EuroBoundaryMap, European Location Framework.

Науково-дослідний інститут геодезії і картографії направляє для участі в цій технічній нараді завідувача відділу геоінформаційних технологій НДІГК, кандидата технічних наук Черіна Андрія Геннадійовича.

Додаток: Попередня програма технічної наради на двох аркушах.

В.о. директора НДІГК

Ю. О. Карпінський

Трюхан М. О. 5028064

### Main Building

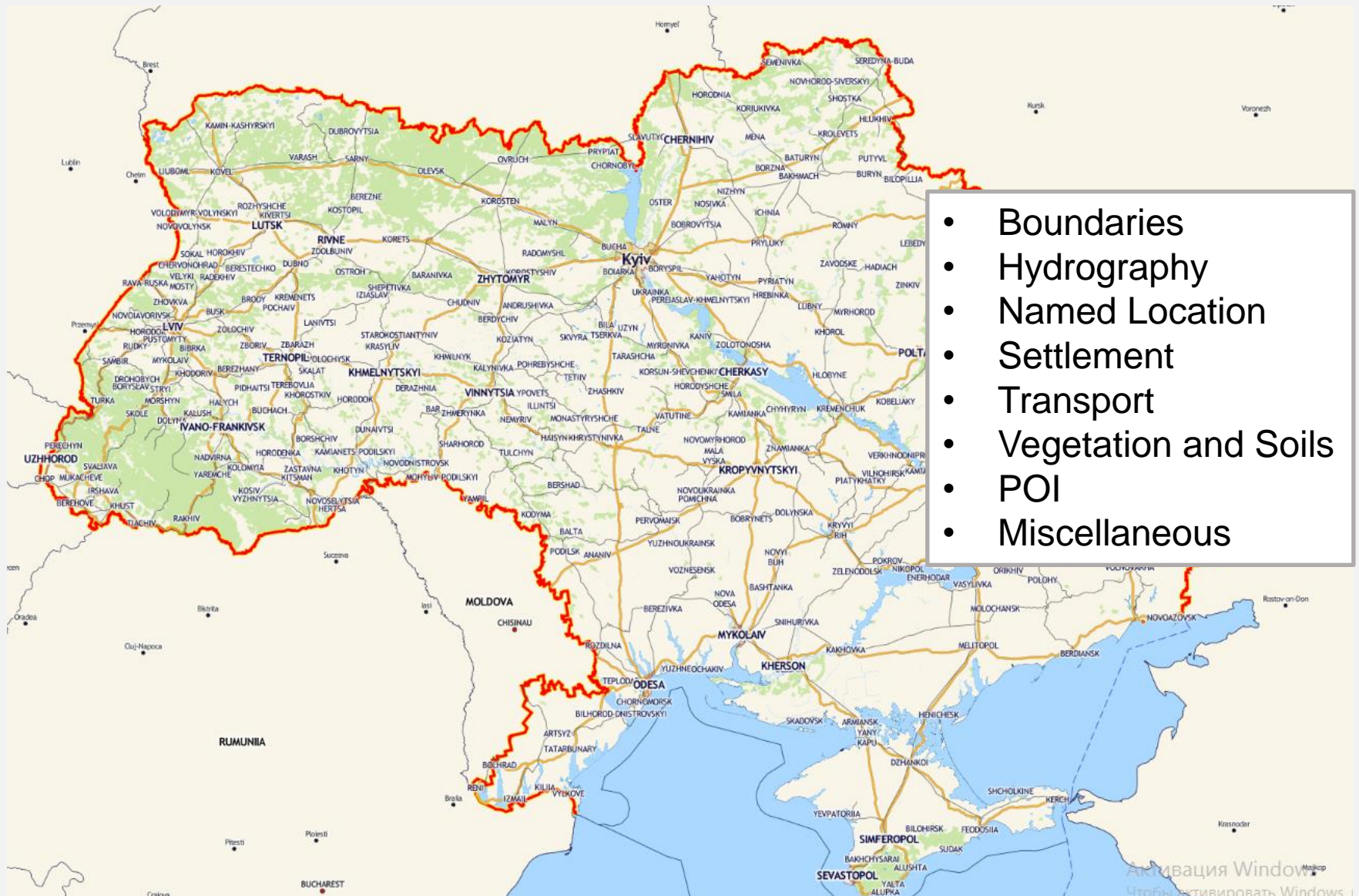


### Director - Karpinskiy

- Department of GIS and Geoportal - Cherin Andrii
- Department of Digital Cartography
- Department of Geodesy

# Data Source

## Main Data Source – 1:100 000 geospatial data base



## *Quality and relevance*


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**The database is relevant. The changes are made regularly, every day.**

### **Decommunization**

- change settlement names
- change NUTS Names
- change street names

### **Decentralization**

- 4-lvl NUTS  3-lvl NUTS

*thousands of changes made to the database for last year*



# Special areas



# Geoportal of administrative-territorial system of Ukraine

atu.minregion.gov.ua/en/ustriy\_page/44

Home page About portal Help Contacts **Attention! The portal is in beta-testing!** Search

Ministry of Regional Development, Construction and Housing and Communal Services of Ukraine  
Ukraine State Service of Geodesy, Cartography and Cadastre

Directory Map Projected communities United communities Resolutions of the Verkhovna Rada of Ukraine Decisions of Oblast Rada

Autonomous Republic  
Avtonomna Respublika Krym  
Vinnytska oblast  
Volynska oblast  
Dnipropetrovska oblast  
Donetska oblast  
Zhytomyrska oblast  
Zakarpatska oblast  
Zaporizka oblast  
Ivano-Frankivska oblast  
Khmelnyska oblast

**Zhytomyrska oblast**

**Zhytomyrska oblast**

Information:

Name	
Zhytomyrska oblast	1800000000

1:100 000 DataBase

- extra attributes
- extra POI
- english localization

Khmelnyska oblast  
Cherkaska oblast  
Chernivetska oblast  
Chernihvska oblast  
city Kyiv  
city Sevastopol

**Administrative and territorial system:**

Rayons:	23
City Council cities of rayon significance:	7
Settlement council:	35
Village council:	530
Projected territorial communities	37
Current territorial communities	10

**Localities**

Cities	12
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**Consist :**

Andrushivskiy rayon  
Baranivskiy rayon  
Berdychivskiy rayon  
Brusylivskiy rayon  
Yemilchynskiy rayon  
Zhytomyrskiy rayon  
Korostenskiy rayon  
Korostyshivskiy rayon  
Luhynskiy rayon  
Liubarskiy rayon  
Malynskiy rayon  
Narodytskiy rayon  
Novohrad-Volynskiy rayon  
Ovrutskiy rayon  
Olevskiy rayon  
Popilnianskiy rayon  
Pulynskiy rayon  
Radomyshl'skiy rayon  
Romanivskiy rayon  
Ruzhynskiy rayon  
Khoroshivskiy rayon  
Cherniakhivskiy rayon  
Chudnivskiy rayon

**Map**

**Emblem**

Чтобы активировать Windows, перейдите в раздел "Параметры".



# Geoportal of administrative-territorial system of Ukraine

atu.minregion.gov.ua/en/karta#map=8/47.204642388766935/35.69458007812501&layer=8906587737484582-v:1|op:1/8894715282779406-v:1|op:☆

## GEOPORTAL OF ADMINISTRATIVE-TERRITORIAL SYSTEM OF UKRAINE

Menu Українська

City, area, community ...

### DIRECTORY

ATS Projected communities United communities

Dnipropetrovska oblast >

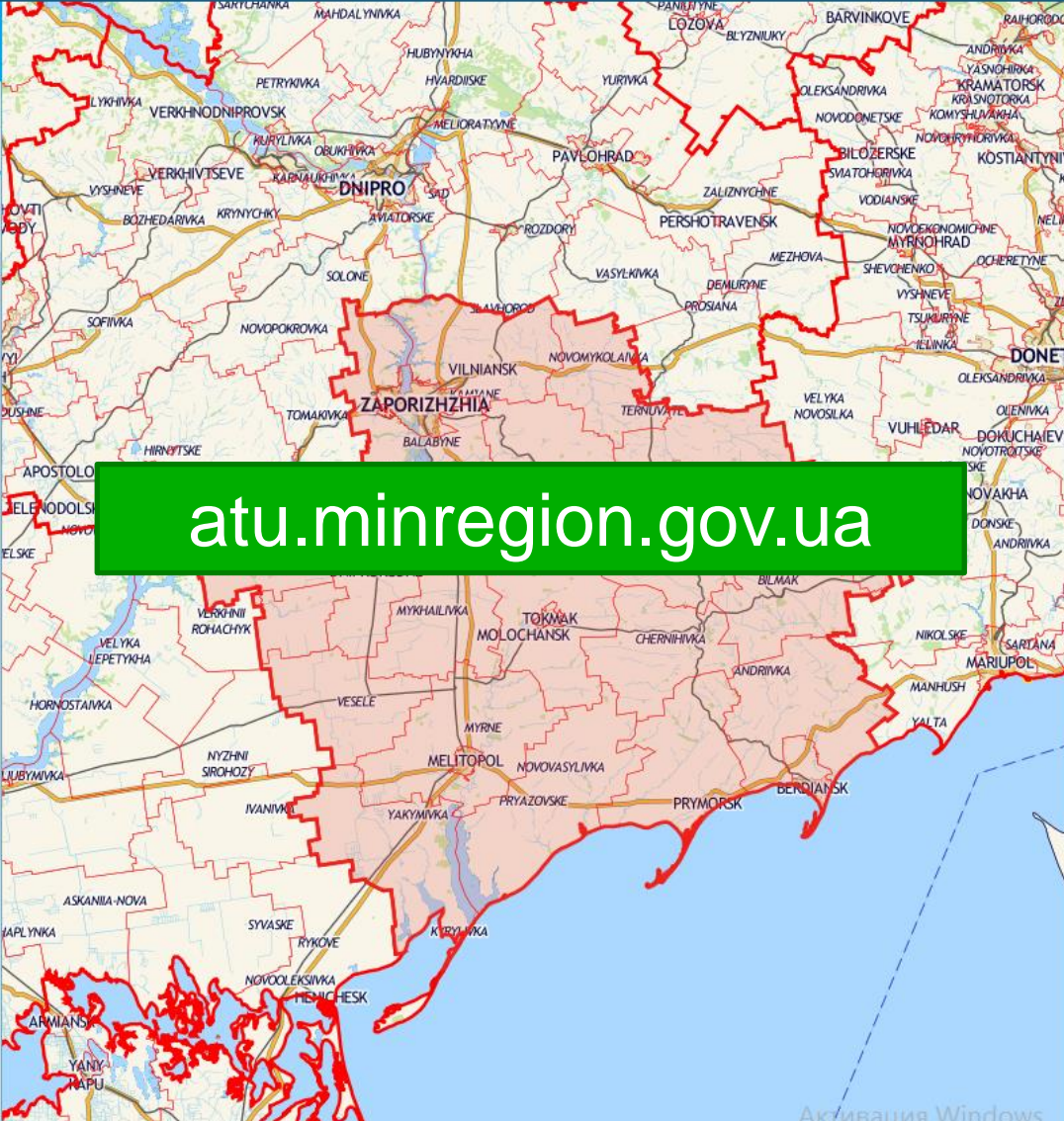
Donetska oblast >

Zhytomyrska oblast >

Zakarpatska oblast >

**Zaporizka oblast** >

- Berdianskyi rayon
- Bilmatyskyi rayon
- Vasylivskyi rayon
- Velykobilozerskyi rayon
- Veselyivskyi rayon
- Vilniyskyi rayon
- Huliapilskyi rayon
- Zaporizkyi rayon
- Kam'iansko-Dniprovskyi rayon
- Melitopolskyi rayon
- Mykhailivskyi rayon
- Novomykolaivskyi rayon
- Orikhivskyi rayon
- Polohivskyi rayon
- Pryazovskyi rayon
- Prymorskyi rayon
- Rozivskyi rayon
- Tokmatskyi rayon
- Chernihivskyi rayon
- Yakymivskyi rayon
- Berdianska city council cities of regional significance
- Enerhodarska city council cities of regional significance
- Zaporizka city council cities of regional significance
- Melitopolska city council cities of regional significance




### Information

☐ Zaporizka oblast [more details](#)

**Data:**

Name	Zaporizka oblast
KOATUU:	2300000000
Date of creation	10 січня 1939 року
Square (km <sup>2</sup> ):	27180
Population (cnt.):	1 765 926 Data for 2015 year
The density of population (persons/km <sup>2</sup> ):	65.9
Webpage:	<a href="http://www.zoda.gov.ua">http://www.zoda.gov.ua</a>

**Symbolics:**



Gerb

**Administrative and territorial system:**

Rayons:	20
City Council cities of rayon significance:	9
Settlement council:	20
Village council:	24
Cities	14
Urban settlements:	22
Villages:	87
Hamlet:	44

**Consist [25]:** >

**Projected communities [52]:** >

**United communities [6]:** >

**File community:** >

Активация Windows

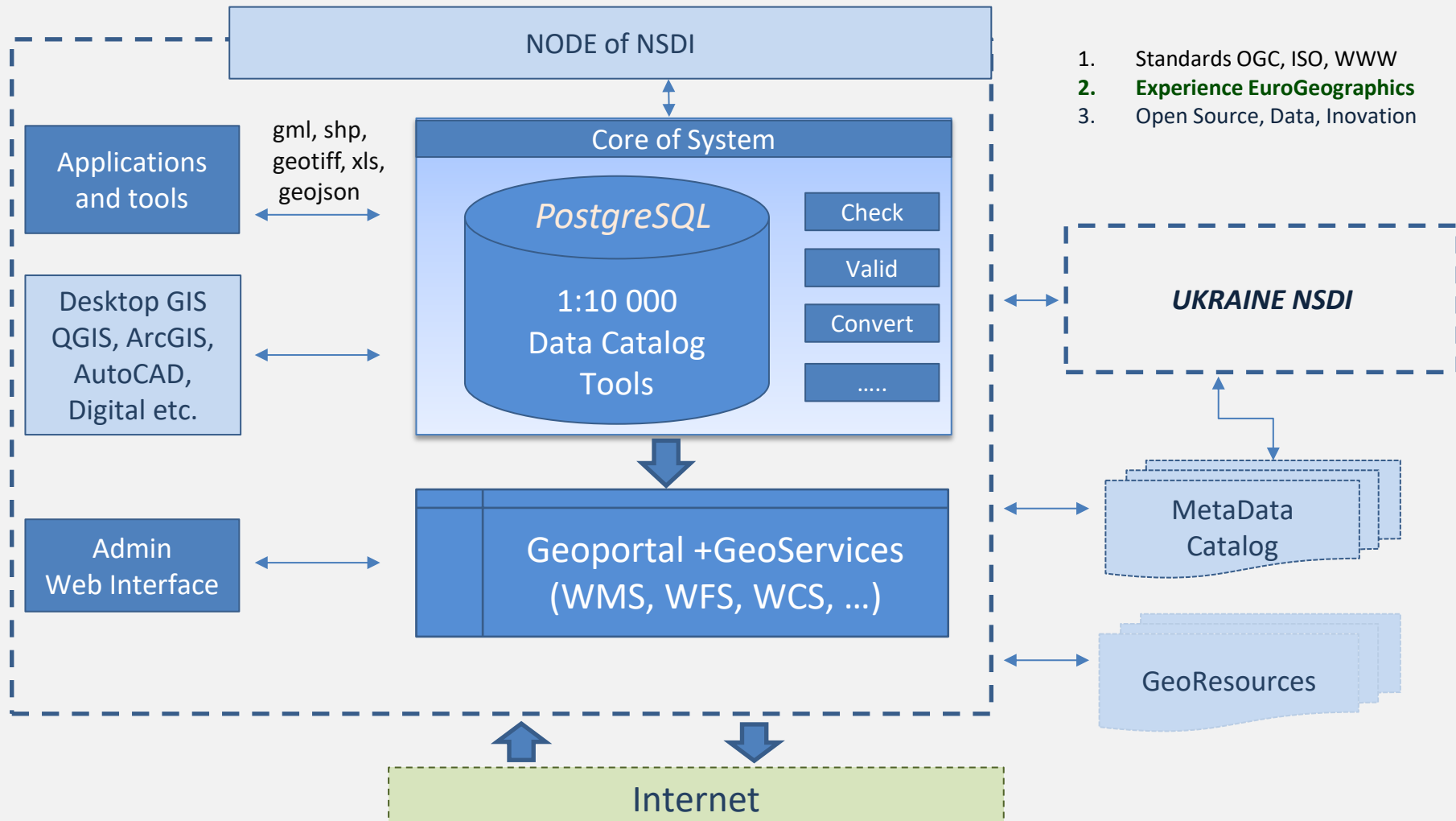


# ERM last state - summer 2014

Group	Layer	Named Location		Transport	
<b>Boundaries</b>					
	Administrative Boundary		Named Location		Railway
	Administrative Area				Railway Network Link
<b>Hydrography</b>		<b>Miscellaneous</b>			Interchange
	Well		Mine		Road
	Coastline / Shoreline		Disposal Site / Waste Pile		Road Network Link
	Foreshore		Processing Plant / Treatment Plant		Control Tower
	Island		Power Station		Level Crossing
	Water (except inland)		Fortification		Road Intersection
	Shoreline Construction		Amusement Park		Ferry Crossing
	Aqueduct		Race Track		Ferry Station
	Lake / Pond		Stadium / Amphitheatre		Entrance / Exit
	Reservoir		Monument		Railway Station
	Spring / Water Hole		Ruins		Vehicle Stopping Area / Rest Area
	Waterfall		Building		Port
	Inland Shoreline		Tower (non-communication)		Pier / Wharf / Quay
	Watercourse		Pipeline / Pipe		Airport / Airfield
	Hydrographic Network Node		Pumping Station		Heliport
	Dam / Weir		Power Transmission Line		Runway
	Lock		Communication Tower	<b>Vegetation and Soils</b>	
	Glacier		Bluff/Clim/Escarpment		Ground Surface Element
	Snow Field / Ice Field		Cave		Agricultural area
	Wetland		Embankment / Fill		Plantation
	Sea Limit		National Park		Woods/Forest
	Landmask Area		Nature Reserve		Points of Interest
		<b>Settlement</b>		<b>POI</b>	
			Built-up Area		Education Service
			Populated Place		Hospital Service
			Named Location		Emergency Medical Service
					Disposal Site / Waste Pile
					Power Generation

Yellow – exists, Red – not exists, White – low quality data (not included in archive). Ukraine ERM. 15/07/2014

# *Service-oriented architecture with data base on PostgreSQL*



# *Ukraine Experience in EuroGeographics*

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## Using experience

- Catalog objects and attributes
- Generalization approach
- Methods data check and validation
- Paper templates



## NSDI UKRAINE

- Preparation of NSDI Establishment and Operation Plan
- Establishment of a Cooperative Framework for Related Organizations
- **Preparation of Standards for Geographic Information**
- **Creation of an NSDI Prototype**
- Capacity Development of C/P and Related Agencies



Other project in GIS  
Urban Cadastre, Thematic Cadastre, etc.



Project Year		FYG16							FYG16							FYG17										
Serial No.	Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
		Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.
Submission of Reports		A CIP ● Opening ● POC									A PDR ● POC							A NSDI ● NSDI								



Research Institute of  
Geodesy and Cartography

*Thank you for  
attention!*

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Web Server: [//www.gki.com.ua](http://www.gki.com.ua)*